

Algebra I

3.6 Worksheet #2

Solving Inequalities

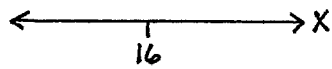
NAME: _____

DATE: _____ HOUR: _____

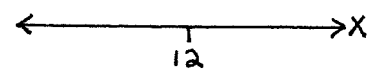
Directions:

Use the Subtraction Property of Inequality (subtract the same quantity from both sides) or the Addition Property of Inequality (add the same quantity to both sides) to solve for the unknown variable. Show your work. Graph your solutions.

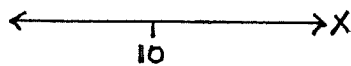
1. $x - 5 \geq 11$



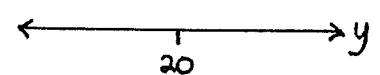
2. $x - 7 < 5$



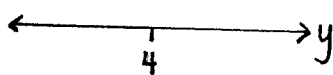
3. $x - 8 \leq 2$



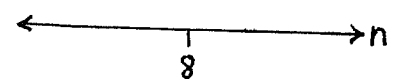
4. $y - 3 > 17$



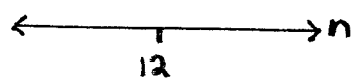
5. $y + 7 \leq 11$



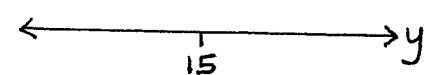
6. $n + 6 > 14$



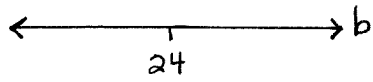
7. $n + 4 \geq 16$



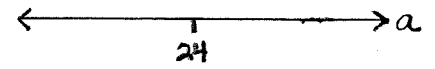
8. $y + 6 < 21$



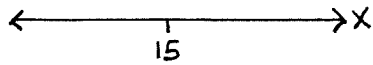
$$9. b - 9 < 15$$



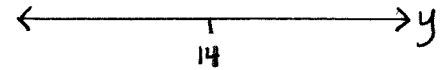
$$10. a - 12 \geq 12$$



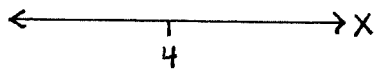
$$11. 5 + x > 20$$



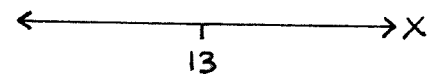
$$12. 28 + y \leq 42$$



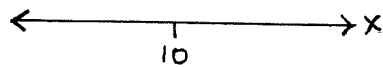
$$13. x + 8 < 12$$



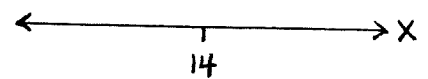
$$14. x - 5 \leq 8$$



$$15. x - 3 \geq 7$$



$$16. x - 9 < 5$$



17. Explain how solving equations and inequalities are alike and different.

ALIKE-

DIFFERENT -